

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (PREVIOUSLY PRESENTED) An inbred cantaloupe seed designated Inbred 442 wherein a sample of said seed has been deposited under NCIMB No. _____.
2. (ORIGINAL) A cantaloupe plant, or parts thereof, produced by growing the seed of claim 1.
3. (ORIGINAL) Pollen of the plant of claim 2.
4. (ORIGINAL) An ovule or ovules of the plant of claim 2.
5. (ORIGINAL) A cantaloupe plant, or parts thereof, having all of the physiological and morphological characteristics of the cantaloupe plant of claim 2.
6. (CANCELED)
7. (PREVIOUSLY PRESENTED) A tissue culture of regenerable cells of a cantaloupe plant of claim 2 wherein the tissue regenerates plants having all the morphological and physiological characteristics of inbred cantaloupe line 442, representative seeds having been deposited under NCIMB No. _____.
8. (CURRENTLY AMENDED) The tissue culture according to claim 7, wherein the cells ~~or protoplasts of said cells having been isolated~~ are from a tissue plant part selected from the group consisting of ~~embryo~~ embryos, protoplasts, meristematic cells, callus, pollen, leaves, anthers, stems, petioles, roots, ~~root tips~~ root tips, fruits, seeds, flowers, cotyledons and hypocotyls.
9. (PREVIOUSLY PRESENTED) A cantaloupe plant regenerated from the tissue culture of claim 7 wherein the plant expresses all the morphological and physiological characteristics of inbred cantaloupe line 442, representative seeds having been deposited under NCIMB No. _____.
10. (CURRENTLY AMENDED) A method for producing a hybrid cantaloupe seed comprising crossing a first inbred parent cantaloupe plant with a second inbred parent cantaloupe plant and harvesting a hybrid cantaloupe seed produced by crossing said first and second inbred parent cantaloupe plants, wherein said first or second inbred

parent cantaloupe plants plant is the cantaloupe plant of claim 2.

11 - 32. (CANCELED)

33. (CURRENTLY AMENDED) A method of producing a transgenic cantaloupe plant comprising transforming the cantaloupe plant of claim 2 with a transgene wherein the transgene confers a characteristic selected from the group ~~consisting of~~: consisting of herbicide resistance, insect resistance, resistance to bacterial disease, resistance to fungal disease, resistance to viral disease, male sterility, increased sweetness, increased flavor, improved ripening control and improved salt tolerance.

34. (PREVIOUSLY PRESENTED) A transgenic cantaloupe plant produced by the method of claim 33.

35. (PREVIOUSLY PRESENTED) A method of producing an herbicide resistant cantaloupe plant comprising transforming the cantaloupe plant of claim 2 with a transgene that confers herbicide resistance.

36. (PREVIOUSLY PRESENTED) An herbicide resistant cantaloupe plant produced by the method of claim 35.

37. (PREVIOUSLY PRESENTED) A method of producing an insect resistant cantaloupe plant comprising transforming the cantaloupe plant of claim 2 with a transgene that confers insect resistance.

38. (PREVIOUSLY PRESENTED) An insect resistant cantaloupe plant produced by the method of claim 37.

39. (PREVIOUSLY PRESENTED) A method of producing a disease resistant cantaloupe plant comprising transforming the cantaloupe plant of claim 2 with a transgene that confers resistance to bacterial, fungal or viral disease.

40. (PREVIOUSLY PRESENTED) A disease resistant cantaloupe plant produced by the method of claim 39.

41. (PREVIOUSLY PRESENTED) A method of producing a male sterile cantaloupe plant comprising transforming the cantaloupe plant of claim 2 with a transgene that confers male sterility.

42. (PREVIOUSLY PRESENTED) A male sterile cantaloupe plant produced by the

method of claim 41.

43. (PREVIOUSLY PRESENTED) A method of producing a cantaloupe plant which produces fruits with increased sweetness and flavor, comprising transforming the cantaloupe plant of claim 2 with a transgene that confers increased sweetness and flavor of the fruit.

44. (PREVIOUSLY PRESENTED) A cantaloupe plant which produces fruits with increased sweetness and flavor, said plant produced by the method of claim 43.

45. (PREVIOUSLY PRESENTED) A method of producing a cantaloupe plant with improved ripening control, comprising transforming the cantaloupe plant of claim 2 with a transgene that confers improved ripening control.

46. (PREVIOUSLY PRESENTED) A cantaloupe plant with improved ripening control produced by the method of claim 45.

47. (PREVIOUSLY PRESENTED) A method of producing a cantaloupe plant with improved salt tolerance, comprising transforming the cantaloupe plant of claim 2 with a transgene that confers improved salt tolerance.

48. (PREVIOUSLY PRESENTED) A cantaloupe plant with improved salt tolerance produced by the method of claim 47.

49 - 54. (CANCELED)

55. (PREVIOUSLY PRESENTED) A hybrid cantaloupe seed designated E69T9*Inbred 442 having inbred line 442 as a parental line, representative seed of said hybrid having been deposited under NCIMB No_____.

56. (PREVIOUSLY PRESENTED) A hybrid cantaloupe plant produced by growing the hybrid seed of claim 55.